

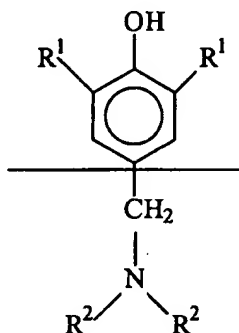
Claims:

1. (Currently amended) A stabilized syndiotactic 1,2-polybutadiene composition comprising:

a syndiotactic 1,2-polybutadiene:

less than about 1.0 mmol of a transition metal per 100 parts by weight syndiotactic 1,2-polybutadiene; and

~~at least about 1.4 parts by weight per 100 parts by weight syndiotactic 1,2-polybutadiene of~~ an antioxidant selected from the group consisting of 2,6-di-~~t~~-butyl 4-(dimethylaminomethyl)phenol, ~~2,6-di-t-butyl 4-(diethylaminomethyl)phenol,~~ 2,6-diethyl-4-(dimethylaminomethyl)phenol, and 2,6-dimethyl-4-(dimethylaminomethyl)phenol.



2-24 cancelled

2 25. (Currently amended) The stabilized syndiotactic 1,2-polybutadiene composition of claim 1, where said syndiotactic 1,2-polybutadiene and said transition metal ~~derive~~ are derived from polymerizing conjugated diene monomer ~~by employing in the presence of~~ an iron-containing, chromium-containing, or molybdenum-containing catalyst system, where the amount of the iron-containing, chromium-containing, or molybdenum-containing compound employed is from about 0.01 to about 1.0 mmol of iron-containing compound, chromium-containing compound, or molybdenum-containing compound per 100 g of monomer to form syndiotactic 1,2-polybutadiene.

26. ³ (Previously presented) The stabilized syndiotactic 1,2-polybutadiene composition of claim 1, where the composition comprises from about 0.01 to about 1.0 mmol of transition metal per 100 parts by weight of said syndiotactic 1,2-polybutadiene.

27. ⁴ (Currently amended) The stabilized syndiotactic 1,2-polybutadiene composition of claim 26, where the composition comprises from about ~~0.01~~ 0.05 to about 0.5 mmol of transition metal per 100 parts by weight of said syndiotactic 1,2-polybutadiene.

28. Cancelled

29. ⁵ (Currently amended) A stabilized syndiotactic 1,2-polybutadiene composition comprising:

syndiotactic 1,2-polybutadiene:

less than about 0.5 mmol of a transition metal per 100 parts by weight syndiotactic 1,2-polybutadiene; and

~~at least about 0.7 parts by weight per 100 parts by weight syndiotactic 1,2-polybutadiene of~~ an antioxidant selected from the group consisting of ~~2,6-di-*t*-butyl-4-(dimethylaminomethyl)phenol,~~ ~~2,6-di-*t*-butyl-4-(diethylaminomethyl)phenol,~~ 2,6-diethyl-4-(dimethylaminomethyl)phenol, and 2,6-dimethyl-4-(dimethylaminomethyl)phenol.

30-32 Cancelled

33. ⁶ (Currently amended) The stabilized syndiotactic 1,2-polybutadiene composition of claim 29, where said syndiotactic 1,2-polybutadiene and said transition metal ~~derive~~ are derived from polymerizing conjugated diene monomer ~~by employing in the presence of~~ an iron-containing, chromium-containing, or molybdenum-containing catalyst system, where the amount of the iron-containing, chromium-containing, or molybdenum-containing compound employed is from about 0.01 to about 0.5 mmol of iron-containing compound, chromium-containing compound, or molybdenum-containing compound per 100 g of monomer to form syndiotactic 1,2-polybutadiene.

~~34.~~⁷ (Previously presented) The stabilized syndiotactic 1,2-polybutadiene composition of claim 29, where the composition comprises from about 0.01 to about ~~1.0~~^{0.5} mmol of transition metal per 100 parts by weight of said syndiotactic 1,2-polybutadiene.

~~35.~~⁸ (Currently amended) The stabilized syndiotactic 1,2-polybutadiene composition of claim 34, where the composition comprises from about ~~0.01~~ 0.05 to about ~~0.1~~ 0.5 mmol of transition metal per 100 parts by weight of said syndiotactic 1,2-polybutadiene.

~~36.~~⁹ (Previously presented) The stabilized syndiotactic 1,2-polybutadiene composition of claim 29, where the composition comprises from about 1 to about 10 parts by weight of said antioxidant per 100 parts by weight of said syndiotactic 1,2-polybutadiene.